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DERWENT-WEEK: 200337

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TITLE: Multilayer chirped mirror for  
causing preset negative/positive group delay time  
has multiple individual layers contiguous via  
parallel, planar boundary layers and applied to  
support substrate

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PATENT-FAMILY:

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AT 410721 B		May 15, 2003	N/A
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WO 200268999 A2		September 6, 2002	G
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AT 200100302 A		November 15, 2002	N/A
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LK LR LS LT LU LV  
MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SL TJ TM TN TR TT  
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APPLICATION-DATA:

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AT 410721B	N/A	

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ABSTRACTED-PUB-NO: WO 200268999A

BASIC-ABSTRACT:

NOVELTY - Multiple individual layers (2,3) applied to a support substrate (4) are contiguous via parallel, planar boundary layers and have different optical constants and different thicknesses. A wedge-shaped front glass platelet (5) fastens on an outer individual layer (2) facing away from the support substrate by means of optical bonding.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method for producing a multilayer chirped mirror.

USE - In laser devices.

ADVANTAGE - It is possible to have the mirror's impedance ideally adapted to an external medium. Surface quality, e.g. in a range of  $\lambda/6$ -  $\lambda/10$ , can be suitable for laser applications.

DESCRIPTION OF DRAWING(S) - The drawing shows a structural diagram of a multilayer chirped mirror with a wedge-shaped front glass platelet.

Multiple individual layers 2,3

Support substrate 4

Wedge-shaped front glass platelet 5

Outer individual layer 2

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS: MULTILAYER CHIRP MIRROR CAUSE PRESET NEGATIVE  
POSITIVE GROUP DELAY

TIME MULTIPLE INDIVIDUAL LAYER CONTIGUOUS  
PARALLEL PLANE BOUNDARY  
LAYER APPLY SUPPORT SUBSTRATE

DERWENT-CLASS: P81 U12 V07 V08

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